	Application No.	Applicant(s)
Notice of Allowability	10/767,363	SHAMSAIFAR, KHOSRO
	Examiner	Art Unit
	THUAN T. NGUYEN	2618
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to		
2. ☑ The allowed claim(s) is/are <u>1,2,4-13 and 15-26</u> .		
 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. 		
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. ☐ Notice of Informal P 6. ☐ Interview Summary Paper No./Mail Dat 7. ☐ Examiner's Amenda 8. ☑ Examiner's Stateme 9. ☐ Other	(PTO-413), te

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DETAILED ACTION

Remark

1. Claims 3 and 14 have been canceled, and claims 25-26 have been added. Pending claims 1-2, 4-13, and 15-26 are for reconsideration.

Allowable Subject Matter

- 2. Claims 1-2, 4-13, and 15-26 have been allowed.
- 3. The following is a statement of reasons for the indication of allowable subject matter:

For claims 1-2, 4-13, and 15-21, the prior art does not teach the electronically tunable multiple band antenna as of claim 1, AND further including the features of "wherein said high band antenna further comprises: a substrate; a patch element on said substrate; at least one voltage tunable varactor associated with said patch element; a DC bias point on said patch element; and an RF input on said patch element" as called for therein.

For claims 22-26, the prior art of record fails to teach or suggest an electronically tunable quad-band antenna, comprising: a tunable high band antenna tuned by at least one tunable varactor associated therewith; said tunable high band antenna further comprising: a substrate; patch element; a patch element on said substrate; at least one voltage tunable varactor associated with said a DC bias point on said patch element; an RF input on said patch element; and a temperature sensor associated with said high band pass antenna; a tunable low band antenna tuned by at least one tunable varactor associated therewith said tunable low band antenna further

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comprising: a substrate; a patch element on said substrate; at least one voltage tunable varactor

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associated with said patch element; a DC bias point on said patch element; an RF input on said

patch element; and a temperature sensor associated with said low band pass antenna; a controller

receiving control data, output information from said low band antenna and output information

from said high band antenna and controlling a first bias voltage for biasing said at least one

voltage tunable varactor associated with said high band antenna and a second bias voltage for

biasing said at least one voltage tunable varactor associated with said low band antenna.

Conclusion

4. Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to the New Central Fax number:

(571) 273-8300, (for Technology Center 2600 only)

Hand deliveries must be made to Customer Service Window,

Randolph Building, 401 Dulany Street, Alexandria, VA 22314.

5. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Tony Thuan Nguyen whose telephone number is (571) 272-7895.

The examiner can normally be reached on Monday-Friday from 9:30 AM to 7:00 PM.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ngujlen

Tony T. Nguyen Primary Examiner Art Unit 2618

TTN

December 15, 2007